

Notice of Allowability

Application No.

10/822,678

Examiner

Ingrid Wright

Applicant(s)

JO, JAE-YOUNG

Art Unit

2835

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 4/13/04.
2. ☒ The allowed claim(s) is/are 1-28.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 4/13/04
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DETAILED ACTION

Priority

1. Acknowledgement is made of applicant's claim for foreign priority under 35 U.S.C. 119 (a)-(d). Receipt is acknowledged of papers submitted under 35 U.S. C. 119 (a)-(d).

Allowable Subject Matter

2. The following is an examiner's statement of reasons for allowance: The allowability resides in the overall structure of the device as recited in independent claims 1, 26, 28 and at least in part, because claim 1 recites: "a computer having a main casing to accommodate a plurality of hardware components such as a CPU, comprising: a heat dissipating assembly comprising a heat sink including a heat transmitter and a plurality of heat dissipating fins formed on the heat transmitter, which is disposed on the CPU, a heat transmitter formed with a through hole, a supporter, installed in the heat dissipating fins, being disposed so that the supporter is parallel with the heat transmitter and perpendicular to the heat dissipating fins, perpendicularly to the heat dissipating fins; and a push member comprising a lever pivoted on the supporter such that the lever disposed parallel with the heat dissipating fins, having a first end rotatably connected to the push rod by the hinge and a second end exposed to the outside of the heat dissipating fins and operated by a user. Further, the lever is formed with a groove to be pivoted on the supporter and a push rod connected to the lever and passing through the through hole, the push rod traveling through the through hole in a direction such that the heat transmitter separates from the CPU when the lever

Art Unit: 2835

is operated. The push rod is disposed parallel with the heat dissipating fins, having a first end passing through the through hole and a second end connected to the lever by the hinge. Furthermore, a user pushes up the lever which pivots on the supporter so that the push rod simultaneously moves down toward the CPU passing through the through hole in correspondence to the pivoting of the lever. At this time, the push rod pushes the CPU away from the heat transmitter so that the heat transmitter is detached from the CPU." [Prior Art of Record fails to teach and/or fairly suggest] the limitations as recited above.

claim 26 recites: "a computer, comprising a CPU, a heat transmitter formed with a through hole, a thermal resistance reducer interposed between the CPU and the heat transmitter to reduce thermal resistance; wherein the thermal resistance reduce includes a thermal pad or a thermal grease, a supporter, so that the supporter is parallel with the heat transmitter and perpendicular to the heat dissipating fins: a lever pivoted on the supporter, and a push rod connected to the lever and passing through the through hole such that when the lever is operated, the push rod travels through the through hole in a direction such that the heat transmitter is separated from the CPU, such that the lever is disposed perpendicular to the heat dissipating fins, having a first end rotatably connected to the push rod by the hinge and a second end exposed to the outside of the heat dissipating fins and operated by a user. Further, the lever is formed with a groove to be pivoted on the supporter. Furthermore, a user pushes up the lever which pivots on the supporter so that the push rod simultaneously moves down toward

Art Unit: 2835

the CPU passing through the through hole in correspondence to the pivoting of the lever. At this time, the push rod pushes the CPU away from the heat transmitter so that the heat transmitter is detached from the CPU.” [Prior Art of Record fails to teach and/or fairly suggest] the limitations as recited above.

claim 28 recites: “an apparatus separating a heat transmitter and a CPU, comprising: a supporter combined with the heat transmitter, a lever pivoted on the supporter, and a push rod connected to the lever and contacting the CPU such that when the lever is operated, the push rod forces the heat transmitter away from the CPU, thereby separating the heat transmitter from the CPU, thus a user pushes up the lever which pivots on the supporter so that the push rod simultaneously moves down toward the CPU passing through the through hole in correspondence to the pivoting of the lever. At this time, the push rod pushes the CPU away from the heat transmitter so that the heat transmitter is detached from the CPU.” [Prior Art of Record fails to teach and/or fairly suggest the push rod being in contact with the CPU, as claimed].

Therefore, claims 1-28 are allowed over the prior art of record.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

Art Unit: 2835

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ingrid Wright whose telephone number is (571) 272-8392. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn Feild can be reached on (571) 272-2800, ext 35. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

IDW

Lisa Lea-Edmonds
LISA LEA-EDMONDS
PRIMARY EXAMINER